# SEQUENCE LISTING

		(1) GER	NERAL I	LNFORM	ATTON:									
•	5	(i)	APPLIC	<i>i</i>	Adams, Ashker Chunth Kim, K	nazi, narap	Avi ai,	J.						
	10	(ii)	TITLE	OF IN	/ENTIC	N: A	po-2	Rec	epto	r				
		(iii)	NUMBER	R OF SI	QUENC	ES:	14							
	15	(iv)	(B) ST (C) CI (D) ST (E) CC	DRESSI TREET: TTY: So TATE: O	E: Ge 1 DNA outh S Califo USA	enent Way San F	ech, ranc		•	·				
	20		(F) ZI	P: 940	080									
	25	(v)	(B) CC (C) OE	ER REA DIUM I MPUTEI PERATII OFTWARI	YPE: R: IBM IG SYS	3.5 I PC STEM:	inch comp PC-	atib DOS/	le MS-D	os	орру	dis	k	·
	30	(vi)	(B) FI	NT APPI PPLICAT LING I LASSIF	CION NOATE:	IUMBE								
	35	(viii)	(A) NA	ME: Ma GISTRA	rscha TION	ng, NUMB	Dian ER:	e L. 35,6		1R2				
	40	(ix)	(B) TE	LEPHON	IE: 65 650/	0/22 952-	5-54: 9881		:					
	45	(i)	(B) TY	ICE CHA INGTH: IPE: An IPOLOGY	411 a ino A	mino cid	acio	ds						•
		(xi)	SEQUEN	CE DES	CRIPT	ION:	SEQ	ID I	NO:1	:				
	50	Met Gl 1	u Gln	Arg Gl	y Gln 5	Asn	Ala	Pro	Ala 10	Ala	Ser	Gly	Ala	Arg 15
	55	Lys Ar	g His	_	o Gly O	Pro	Arg	Glu	Ala 25	Arg	Gly	Ala	Arg	Pro 30
	55	Gly Le	u Arg		o Lys 5	Thr	Leu	Val	Leu 40	Val	Val	Ala	Ala	Val 45
	60	Leu Le	u Leu	_	r Ala O	Glu	Ser	Ala	Leu 55	Ile	Thr	Gln	Gln	Asp 60

		Leu	Ala	Pro	Gln	Gln 65	Arg	Ala	Ala	Pro	Gln 70	Gln	Lys	Arg	Ser	Ser 75
	5	Pro	Ser	Glu	Gly	Leu 80	Cys	Pro	Pro	Gly	His 85	His	Ile	Ser	Glu	Asp 90
		Gly	Arg	Asp	Cys	Ile 95	Ser	Cys	Lys	Tyr	Gly 100	Gln	Asp	Tyr	Ser	Thr 105
	10	His	Trp	Asn	Asp	Leu 110	Leu	Phe	Cys	Leu	Arg 115	Cys	Thr	Arg	Cys	Asp 120
	15	Ser	Gly	Glu	Val	Glu 125	Leu	Ser	Pro	Cys	Thr 130	Thr	Thr	Arg	Asn	Thr 135
		Val	Cys	Gln	Cys	Glu 140	Glu	Gly	Thr	Phe	Arg 145	Glu	Glu	Asp	Ser	Pro 150
	20	Glu	Met	Суѕ	Arg	Lys 155	Cys	Arg	Thr	Gly	Cys 160	Pro	Arg	Gly	Met	Val 165
		Lys	Val	Gly	Asp	Cys 170	Thr	Pro	Trp	Ser	Asp 175	Ile	Glu	Суѕ	Val	His 180
	25	Lys	Glu	Ser	Gly	Ile 185	Ile	Ile	Gly	Val	Thr 190	Val	Ala	Ala	Val	Val 195
	30	Leu	Ile	Val	Ala	Val 200	Phe	Val	Cys	Lys	Ser 205	Leu	Leu	Trp	Lys	Lys 210
13		Val	Leu	Pro	Tyr	Leu 215	Lys	Gly	Ile	Cys	Ser 220	Gly	Gly	Gly	Gly	Asp 225
	35	Pro	Glu	Arg	Val	Asp 230	Arg	Ser	Ser	Gln	Arg 235	Pro	Gly	Ala	Glu	Asp 240
		Asn	Val	Leu	Asn	Glu 245	Ile	Val	Ser	⁻I¹l⁻e⁻	Leu 250	Gln-	Pro-	Thr-	-G <del>l-</del> n-	Val 255
	40	Pro	Glu	Gln	Glu	Met 260	Glu	Val	Gln	Glu	Pro 265	Ala	Glu	Pro	Thr	Gly 270
	45	Val	Asn	Met	Leu	Ser 275	Pro	Gly	Glu	Ser	Glu 280	His	Leu	Leu	Ģlu	Pro 285
		Ala	Glu	Ala	Glu	Arg 290	Ser	Gln	Arg	Arg	Arg 295	Leu	Leu	Val	Pro	Ala 300
	50	Asn	Glu	Gly	Asp	Pro 305	Thr	Glu	Thr	Leu	Arg 310	Gln	Cys	Phe	Asp	Asp 315
		Phe	Ala	Asp		Val 320	Pro	Phe	Asp	Ser	Trp 325	Glu	Pro	Leu	Met	Arg 330
	55	Lys	Leu	Gly	Leu	Met 335	Asp	Asn	Glu	Ile	Lys 340	Val	Ala	Lys	Ala	Glu 345
	60	Ala	Ala	Gly	His	Arg 350	Asp	Thr	Leu	Tyr	Thr 355	Met	Leu	Ile	Lys	Trp 360

		Val	Asn	Lys	Thr	Gly 365	Arg	Asp	Ala	Ser	Val 370	His	Thr	Leu	Leu	Asp 375
	5	Ala	Leu	Glu	Thr	Leu 380	Gly	Glu	Arg	Leu	Ala 385	Lys	Gln	Lys	Ile	Glu 390
•		Asp	His	Leu	Leu	Ser 395	Ser	Gly	Lys	Phe	Met 400	Tyr	Leu	Glu	Gly	Asn 405
	10	Ala	Asp	Ser	Ala		Ser 411									
		(2)	INFO	RMAT	ION 1	FOR S	SEQ :	ID N	0:2:							
•.	15	(:	(1	A) L B) T C) S	NCE (ENGTI YPE: TRANI	H: 1 Nucl DEDNI	799 ł leic ESS:	oase Acio Sino	pai:	rs						
	20	(x:			NCE I				SEQ	ID I	NO:2	:				
4	25	CCC	ACGC	GTC (	CGCA:	raaa:	rc ac	GCAC	GCGG	C CG	GAGA	ACCC	CGC	AATCI	rct 5	50
I		GCG	CCCA	CAA	AATAO	CACC	GA CO	GATG	CCCGA	A TC	PACT:	TAA	GGG	CTGA	AAC 1	100
THE THE THE	30	CCA	CGGG	CCT (	GAGA(	GACT <i>I</i>	AA TA	AGAG(	CGTT	C CC	racc(	GCC		GAA Glu	145	
	25				CAG Gln										184	
	35				GGC Gly	-Pro-					Ala-					
U						20					25					
	40				CTC Leu										262	
	45				GTC Val 45										301	
	50				CAA Gln										340	
	c c				CAA Gln										379	
	55				GGA Gly										418	

			TGC Cys					457
	5		CTC Leu 110					496
	10		GAA Glu					535
÷	15		GTG Val					574
	20		TCT Ser					613
			AGA Arg					652
	25		GAC Asp 175					691
	30		GGA Gly					730
	35		TTT Phe					769
Rull H. H.	40		TAC Tyr					-8.0.8
	40		GAG Glu					847
	45		GAC Asp 240					886
	50		ACC Thr					925
	55		GCA Ala					964
	60		TCA Ser					1003

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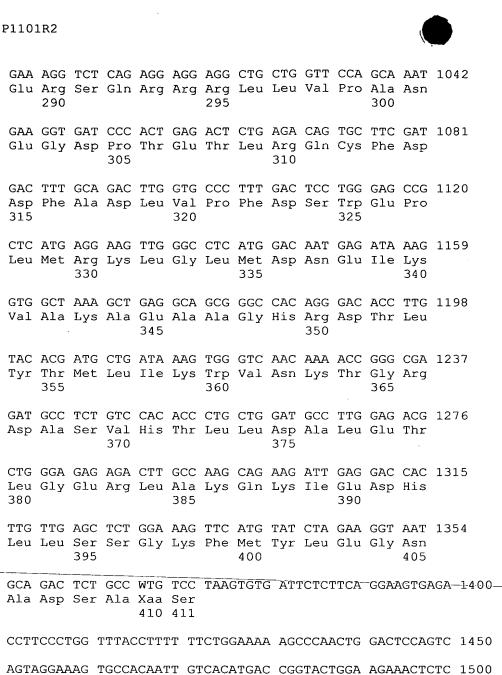
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CCATCCAACA TCACCCAGTG GATGGAACAT CCTGTAACTT TTCACTGCAC 1550

TTGGCATTAT TTTTATAAGC TGAATGTGAT AATAAGGACA CTATGGAAAT 1600

GTCTGGATCA TTCCGTTTGT GCGTACTTTG AGATTTGGTT TGGGATGTCA 1650

TTGTTTTCAC AGCACTTTTT TATCCTAATG TAAATGCTTT ATTTATTTAT 1700

TTGGGCTACA TTGTAAGATC CATCTACAAA AAAAAAAAA AAAAAAAAA 1750

55 GGCGGCCGCG ACTCTAGAGT CGACCTGCAG AAGCTTGGCC GCCATGGCC 1799

### (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 70 base pairs
  - (B) TYPE: Nucleic Acid

		<ul><li>(C) STRANDEDNESS: Single</li><li>(D) TOPOLOGY: Linear</li></ul>
,	5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
		GGGAGCCGCT CATGAGGAAG TTGGGCCTCA TGGACAATGA GATAAAGGTG 50
	10	GCTAAAGCTG AGGCAGCGGG 70
	10	(2) INFORMATION FOR SEQ ID NO:4:
	15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 29 base pairs</li><li>(B) TYPE: Nucleic Acid</li><li>(C) STRANDEDNESS: Single</li><li>(D) TOPOLOGY: Linear</li></ul>
	20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
i		ATCAGGGACT TTCCGCTGGG GACTTTCCG 29
	25	(2) INFORMATION FOR SEQ ID NO:5:
n		<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 30 base pairs</li></ul>
ij		(B) TYPE: Nucleic Acid (C) STRANDEDNESS: Single
	30	(D) TOPOLOGY: Linear
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
	35	AGGATGGGAA GTGTGTGATA TATCCTTGAT 30
-'d-		(2) INFORMATION FOR SEQ ID NO:6:
IJ	40	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 930 base pairs</li></ul>
		(B) TYPE: Nucleic Acid (C) STRANDEDNESS: Single
		(D) TOPOLOGY: Linear
	45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
		ATG ACC ATG ATT ACG CCA AGC TTT GGA GCC TTT TTT 36 Met Thr Met Ile Thr Pro Ser Phe Gly Ala Phe Phe
	50	1 5 10
		TTG GAG ATT TTC AAC GTG AAA AAA TTA TTA TTC GCA ATT 75 Leu Glu Ile Phe Asn Val Lys Lys Leu Leu Phe Ala Ile
	55	15 20 25
		CCT TTA GTT GCT TCC TAT GCG GCC CAG CCG GCC ATG 114  Pro Leu Val Val Pro Phe Tyr Ala Ala Gln Pro Ala Met  30 35

					TCT Ser				153
	5				CTC Leu				192
	10				GGC Gly				231
	15				GAG Glu 85				270
	20				GGA Gly	Tyr			309
	20				AGA Arg				348
	25				AGC Ser				387
'\ (D (D	30				AAA Lys.				426
	35				TGG Trp 150				465
1 1 1 1	4.0				GGC Gly				-504
	40				TCT Ser				543
	45				GGA Gly				582
	50				AGA Arg				621
	55				CAG Gln 215				660
	60				CCC Pro				699
	-								

						AGC Ser						TTG Leu	738
5						CAG Gln						TAT Tyr	777
10						GAC Asp 265						GTA Val	816
. 15						AAG Lys						GCC Ala 285	855
20						CAT His						AAA Lys	894
						GAT Asp					TAG	930	
] ] 25	(2)	INFO	RMAT	ION I	FOR :	SEQ :	ID NO	0:7:					
որ կար իրու առու որու ար կար ար 10 10 10 10 10 10 10 10 10 10 10 10 10	(:	( ) ( )	A) L1 B) T' C) S'	ENGTI YPE: TRANI	H: 9 Nuc DEDN	ACTE 39 ba leic ESS: Line	ase p Acid Sind	pair:	S				
35 2	(x:					RIPT:							
True Brain Thrus												TTT -Phe-	
40						GTG Val						ATT Ile 25	75
45						TTC Phe						ATG Met	114
50						GTG Val						GTC Val	153
E C						CTG Leu						TCT Ser	192
55						AGC Ser 70						CGC Arg	231

			GGG Gly					270
	5		GGA Gly					309
	10		TTC Phe					348
	15		CTG Leu 120					387
	20		TAT Tyr					426
4 5			TCG Ser					465
	25		GTC Val					504
	30		GGT Gly					543
	35		CCT Pro 185					582
	40		ACA Thr					621
			TGG Trp					660
	45		ATC Ile					699
	50		CGA Arg					738
	55		ACC Thr 250					777
	60		TAC Tyr					816

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			GTG Val											855
	5		GCG Ala											894
	10		CAA Gln 300											933
	15	GCA Ala 312	TAG	939										
		(2)	INFO	RMAT	ION I	FOR S	SEQ :	ID N	8:0					
	20	(	(1	A) Li 3) Ti C) Si		H: 93 Nucl DEDNI	33 ba leic ESS:	ase p Acio Sino	pair:	6				
	25	(x	i) SI	EQUE	NCE I	DESCI	RIPT	ION:	SEQ	ID 1	8:OI	:		
	30								AGC Ser				TTT Phe	36
	2.5		GAG Glu											75
-    -  -	35		TTA Leu-			Pro					-Gl-n-			
Ü						30					35			
•	40		CAG Gln 40											153
	45		CCT Pro											192
	50		TTC Phe											231
			GCT Ala											270
	55		TAT Tyr											309

		GGC Gly 105						AAC Asn	348
	5	CTG Leu						GAC Asp	387
	10	GCT Ala						TAC Tyr	426
	15	ATG Met						GTC Val 155	465
	20	TCA Ser						GGC Gly	504
<b> </b>		GGC Gly 170						TCA Ser	543
	25	TCT Ser	Gly					TGC Cys	582
l I	30	GGG Gly						GTA Val	621
	35	TGG Trp						CTC Leu 220	660
	40	ATC Ile						-CCT- Pro	-699-
								TCC Ser	
	45	GCC Ala						GAT Asp	777
	50	TAC Tyr						TCG Ser	816
	55	TTC Phe						GCG Ala 285	855
	60	GCA Ala						CAA Gln	894
	60								



AAA CTC ATC TCA GAA GAG GAT CTG AAT GGG GCC GCA Lys Leu Ile Ser Glu Glu Asp Leu Asn Gly Ala Ala 300 305 310

#### 5 TAG 933

## (2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS: 10 (A) LENGTH: 309 amino acids
  - (B) TYPE: Amino Acid
  - (D) TOPOLOGY: Linear

	15	(x.	i) SI	EQUE	NCE I	DESC	RIPTI	ON:	SEQ	ID	10:9	:				
	13	Met 1	Thr	Met	Ile	Thr 5	Pro	Ser	Phe	Gly	Ala 10	Phe	Phe	Leu	Glu	Ile 15
	20	Phe	Asn	Val	Lys	Lys 20	Leu	Leu	Phe	Ala	11e 25	Pro	Leu	Val	Val	Pro 30
		Phe	Tyr	Ala	Ala	Gln 35	Pro	Ala	Met	Ala	Glu 40	Val	Gln	Leu	Val	Gln 45
	25	Ser	Gly	Gly	Gly	Val 50	Glu	Arg	Pro	Gly	Glý 55	Ser	Leu	Arg	Leu	Ser 60
	30	Cys	Ala	Ala	Ser	Gly 65	Phe	Thr	Phe	Asp	Asp 70	Tyr	Gly	Met	Ser	Trp 75
5		Val	Arg	Gln	Ala	Pro 80	Gly	Lys	Gly	Leu	Glu 85	Trp	Val	Ser	Gly	Ile 90
	35	Asn	Trp	Asn	Gly	Gly 95	Ser	Thr	Gly	Tyr	Ala 100	Asp	Ser	Val	Lys	Gly 105

Ser Gly	Gly Gly	Val Glu	Arg Pro	Gly Gly Ser	Leu Arg	Leu Ser
		50		55		60

Су	s A	lla	Ala	Ser	Gly	Phe	Thr	Phe	Asp	Asp	Tyr	Gly	Met	Ser	Trp
					65					70					75

Val A	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Gly	Ile
				80					85					90

Asn Trp Asn	Gly Gly	Ser Thr	Gly Tyr	Ala Asp	Ser	Val	Lys	Gly
	95			100				105

Arg Val Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu

		110	115	120
40	C1 - M T	O	01 7 61 71 11	1 m m ~

40 Gln Met	Asn Ser	ьеи Arg	Ala Gi	u Asp	Tnr A	ата ч	vaı	Tyr	Tyr	Cys
•		125			130					135

Ala Lys Ile	e Leu Gly	Ala Gly	Arg Gly	Trp Tyr	Phe Asp	Leu Trp
	140			145		150

Gly Lys G	ly Thr	Thr	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser
		155					160					165

	Gly Gly	/ Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Ser	Glu	Leu	Thr	Gln
50				170					175					180

55	Cys	Gln	Gly	Asp	Ser	Leu	Arg	Ser	Tyr	Tyr	Ala	Ser	Trp	Tyr	Gln
					200					205					210

-	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr	Gly	Lys	Asn
					215					220					225

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		Asn	Arg	Pro	Ser	Gly 230	Ile	Pro	Asp	Arg	Phe 235	Ser	Gly	Ser	Ser	Ser 240
	5	Gly	Asn	Thr	Ala	Ser 245	Leu	Thr	Ile	Thr	Gly 250	Ala	Gln	Ala	Glu	Asp 255
		Glu	Ala	Asp	Tyr	Tyr 260	Cys	Asn	Ser	Arg	Asp 265	Ser	Ser	Gly	Asn	His 270
	10	Val	Val	Phe	Gly	Gly 275	Gly	Thr	Lys	Leu	Thr 280	Val	Leu	Gly	Ala	Ala 285
	15	Ala	His	His	His	His 290	His	His	Gly	Ala	Ala 295	Glu	Gln	Lys	Leu	Ile 300
		Ser	Glu	Glu	Asp	Leu 305	Asn	Gly		Ala 309						
	20	(2)	INFO	RMAT	ION I	FOR S	SEQ :	ID NO	0:10	:						
	25	(.	(1	A) LI 3) T	NCE ( ENGTI YPE: OPOL(	H: 31 Amir	12 ar	mino cid		ds						
1		(x:	i) SI	EQUE	NCE I	DESC	RIPTI	ON:	SEQ	ID 1	NO:10	):				
	30	Met 1	Thr	Met	Ile	Thr 5	Pro	Ser	Phe	Gly	Ala 10	Phe	Phe	Leu	Glu	Ile 15
=		Phe	Asn	Val	Lys	Lys 20	Leu	Leu	Phe	Ala	Ile 25	Pro	Leu	Val	Val	Pro 30
[] 	35	Phe	Tyr	Ala	Ala	Gln 35	Pro	Ala	Met	Ala	Gly 40	Val	Gln	Leu	Val	Glu 45
IJ		Ser	Gly	Gly	Gly	Leu 50	Val	Gln	Pro	Gly	Gly 55	Ser	Leu	Arg	Leu	Ser 60
	40	Cys	Ala	Ala	Ser	Gly 65	Phe	Thr	Phe	Ser	Ser 70	Tyr	Trp	Met	Ser	Trp 75
	45	Val	Arg	Gln	Ala	Pro 80	Gly	Lys	Gly	Leu	Glu 85	Trp	Val	Ala	Asn	Ile 90
		Lys	Gln	Asp	Gly	Ser 95	Glu	Lys	Tyr	Tyr	Val 100	Asp	Ser	Val	Lys	Gly 105
	50	Arg	Phe	Thr	Ile	Ser 110	Arg	Asp	Asn	Ala	Lys 115	Asn	Ser	Leu	Tyr	Leu 120
		Gln	Met	Asn	Ser	Leu 125	Arg	Ala	Glu	Asp	Thr 130	Ala	Val	Tyr	Tyr	Cys 135
	55	Ala	Arg	Asp	Leu	Leu 140	Lys	Val	Lys	Gly	Ser 145	Ser	Ser	Gly	Trp	Phe 150
	60	Asp	Pro	Trp	Gly	Arg 155	Gly	Thr	Thr	Val	Thr 160	Val	Ser	Ser	Gly	Gly 165



	Gly	Gly	Ser	Gly	Gly 170	Gly	Gly	Ser	Gly	Gly 175	Gly	Gly	Ser	Ser	Glu 180
5		Thr	Gln	Asp	Pro 185	Ala	Val	Ser	Val	Ala 190	Leu	Gly	Gln	Thr	Val 195
	Arg	Ile	Thr	Cys	Gln 200	Gly	Asp	Ser	Leu	Arg 205	Ser	Tyr	Tyr	Ala	Ser 210
10	Trp	Tyr	Glņ	Gln	Lys 215	Pro	Gly	Gln	Ala	Pro 220	Val	Leu	Val	Ile	Tyr 225
15	Gly	Lys	Asn	Asn	Arg 230	Pro	Ser	Gly	Ile	Pro 235	Asp	Arg	Phe	Ser	Gly 240
	Ser	Ser	Ser	Gly	Asn 245	Thr	Ala	Ser	Leu	Thr 250	Ile	Thr	Gly	Ala	Gln 255
20	Ala	Glu	Asp	Glu	Ala 260	Asp	Tyr	Tyr	Cys	Asn 265	Ser	Arg	Asp	Ser	Ser 270
İ	Gly	Asn	His	Val	Val 275	Phe	Gly	Gly	Gly	Thr 280	Lys	Leu	Thr	Val	Leu 285
25 The 30	Gly	Ala	Ala	Ala	His 290	His	His	His	His	His 295	Gly	Ala	Ala	Glu	Gln 300
	Lys	Leu	Ile	Ser	Glu 305	Glu	Asp	Leu	Asn	Gly 310	Ala	Ala 312			
. == .OU															
1 <b>□</b> 30	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	ID NO	0:11	:						
iD :		i) SI (1	EQUEI A) LI B) T	NCE ( ENGTI YPE:	CHARA H: 31 Amir	ACTEI 10 ar no Ac	RIST: mino cid	ics:							
## ## 35	(.	i) Si (i (!	EQUEI A) LI B) T'	NCE ( ENGTI YPE: DPOL(	CHARA H: 31 Amir OGY:	ACTEI 10 ar no Ac Line	RIST: mino cid ear	ICS:	ds	NO: 11	l:				
iD :	(x.	i) Si (i (!	EQUEI A) LI B) TI D)_T(	NCE (ENGTI YPE: OPOLO	CHARA H: 31 Amir DGY:_ DESCI	ACTEI 10 ar no Ac Line	RISTI mino cid ear	ICS: acid	ds ID N			Phe	Leu	Glu	Ile 15
35 35 35 40	(x. Met 1	i) SI (1 (1 ——(1	EQUEI A) LI B) T' D)_TC EQUEI Met	NCE (ENGTHER) YPE: DPOLO NCE I	CHARA H: 31 Amir DGY: DESCR Thr 5	ACTEN 10 ar no Ad Line RIPT:	RISTI nino cid ear ION: Ser	ICS: acid SEQ Phe	ds ID N	Ala 10	Phe				15
35 35 35 35 35 35 35 35 35 35 35 35 35 3	(x. Met 1	i) Si (1 (1 ——(1 i) Si	EQUENA) LI B) TY D)_TC EQUEN Met	NCE (ENGTHER) YPE: OPOLO NCE I Ile Lys	CHARA H: 33 Amir DGY: DESCR Thr 5 Lys 20	ACTENIO AMERICANIO AMERICANI AMERI	RIST: nino cid car ION: Ser .	ICS: acid SEQ Phe	ID N Gly Ala	Ala 10 Ile 25	Phe Pro	Leu	Val	Val	15 Pro 30
35 35 35 40	(x. Met 1 Phe	i) Si (1 (1) (1) (1) (1) (1) (1) (1) (2) (3) (4) (4) (5) (4) (5) (6) (7) (7) (7) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	EQUENTS A) LI B) TY C) TO EQUENT Met Val	NCE (ENGTHER) YPE: OPOLO NCE I Ile Lys Ala	CHARA H: 31 Amir DGY: DESCR Thr 5 Lys 20 Gln 35	ACTEN 10 ar no Ac Line RIPT: Pro Leu	RIST: nino cid ear ION: Ser Leu Ala	SEQ Phe Phe	ID N Gly Ala	Ala 10 Ile 25 Gln 40	Phe Pro Val	Leu Gln	Val Leu	Val Val	15 Pro 30 Gln 45
35 	(x. Met 1 Phe Phe	i) Si (I (Ii ) Si Thr Asn	EQUENT A) LIMB) TYD)—TO Met  Val  Ala  Gly	NCE (ENGTHER) YPE: DPOLO NCE I Ile Lys Ala Gly	CHARA H: 31 Amir DGY: DESCR Thr 5 Lys 20 Gln 35 Val 50	ACTENIO ACT	RIST: mino cid ear ION: Ser . Leu Ala Gln	SEQ Phe Phe Met	ID N Gly Ala Ala Gly	Ala 10 Ile 25 Gln 40 Arg 55	Phe Pro Val Ser	Leu Gln Leu	Val Leu Arg	Val Val Leu	15 Pro 30 Gln 45 Ser 60
35 	(x. Met 1 Phe Phe Ser Cys	i) Si (I (I (I I I I I I I I I I I I I I I I	EQUENT A) LI B) TY C) TO EQUENT Met Val Ala Gly Ala	NCE (ENGTHYPE: DPOLO NCE I Ile Lys Ala Gly Ser	CHARA H: 31 Amir DGY: DESCR Thr 5 Lys 20 Gln 35 Val 50 Gly 65	ACTEN 10 ar no Ad Line RIPT: Pro Leu Pro Val	RIST: mino cid ear ION: Ser . Leu Ala Gln Ile	SEQ Phe Phe Met Pro	ID N Gly Ala Ala Gly Ser	Ala 10 Ile 25 Gln 40 Arg 55 Ser 70	Phe Pro Val Ser	Leu Gln Leu Gly	Val Leu Arg Met	Val Val Leu His	15 Pro 30 Gln 45 Ser 60 Trp 75
35 40 45	(x. Met 1 Phe Phe Ser Cys	i) Si (i) (i) (ii) Si Thr Asn Tyr Gly Ala	EQUENT A) LI B) TY C) TO EQUENT Met Val Ala Gly Ala Gln	NCE (ENGTHYPE: DPOLO NCE I Ile Lys Ala Gly Ser	CHARA H: 31 Amir DGY: DESCR Thr 5 Lys 20 Gln 35 Val 50 Gly 65 Pro 80	ACTENTED ACTENT	RIST: mino cid ear ION: Ser . Leu Ala Gln Ile Lys	SEQ Phe Phe Met Pro Phe	ID N Gly Ala Ala Gly Ser Leu	Ala 10 Ile 25 Gln 40 Arg 55 Ser 70 Glu 85	Phe Pro Val Ser Tyr	Leu Gln Leu Gly Val	Val Leu Arg Met	Val Val Leu His	Pro 30 Gln 45 Ser 60 Trp 75 Ile 90





		Arg	Phe	Thr	Ile	Ser 110	Arg	Asp	Asn	Ser	Lys 115	Asn	Thr	Leu	Tyr	Leu 120
the "I'll Light I will Carly die the wall half half the	5	Gln	Met	Asn	Ser	Leu 125	Arg	Ala	Glu	Asp	Thr 130	Ala	Val	Tyr	Tyr	Cys 135
		Ala	Arg	Asp	Arg	Gly 140	Tyr	Tyr	Tyr	Met	Asp 145	Val	Trp	Gly	Lys	Gly 150
	10	Thr	Thr	Val	Thr	Val 155	Ser	Ser	Gly	Gly	Gly 160	Gly	Ser	Gly	Gly	Gly 165
	15	Gly	Ser	Gly	Gly	Gly 170	Gly	Ser	Gln	Ser	Val 175	Leu	Thr	Gln	Pro	Pro 180
	13	Ser	Val	Ser	Gly	Ala 185	Pro	Gly	Gln	Arg	Val 190	Thr	Ile	Ser	Cys	Thr 195
	20	Gly	Arg	Ser	Ser	Asn 200	Ile	Gly	Ala	Gly	His 205	Asp	Val	His	Trp	Tyr 210
		Gln	Gln	Leu	Pro	Gly 215	Thr	Ala	Pro	Lys	Leu 220	Leu	Ile	Tyr	Asp	Asp 225
	25 .	Ser	Asn.	Arg	Pro	Ser 230	Gly	Val	Pro	Asp	Arg 235	Phe	Ser	Gly	Ser	Arg 240
	30	Ser	Gly	Thr	Ser	Ala 245	Ser	Leu	Ala	Ile	Thr 250	Gly	Leu	Gln	Ala	Glu 255
	50	Asp	Glu	Ala	Asp	Tyr 260	Tyr	Cys	Gln	Ser	Tyr 265	Asp	Ser	Ser	Leu	Arg 270
	35	Gly	Ser	Val	Phe	Gly 275	Gly	Gly	Thr	Lys	Val 280	Thr	Val	Leu	Gly	Ala 285
orne same ar mean to		Ala	Ala	His	His	His 290	His	His	His	Gly	Ala 295	Ala	Glu	Gln	Lys	Leu 300
i U	40	Ile	Ser	Glu	Glu	Asp 305	Leu	Asn	Gly	Ala	Ala 310					
		(2) INFORMATION FOR SEQ ID NO:12:														
	45	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 23 base pairs  (B) TYPE: Nucleic Acid  (C) STRANDEDNESS: Single  (D) TOPOLOGY: Linear														
	50	(D) TOPOLOGY: Linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:														
	c c	AGCGGATAAC AATTTCACAC AGG 23														
	55	(2) ]	NFOF	RMATI	ON F	OR S	EQ I	D NO	:13:							
,	60	(i		LE	NGTH	i: 21	bas	RISTI se pa Acid	irs							



- (C) STRANDEDNESS: Single
- (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

5

GTCGTCTTTC CAGACGGTAG T 21

(2) INFORMATION FOR SEQ ID NO:14:

10

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12 amino acids
  - (B) TYPE: Amino Acid
  - (D) TOPOLOGY: Linear

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Met Ala Asp Pro Asn Arg Phe Arg Gly Lys Asp Leu
1 5 10 12

20